

## IN THE CLAIMS

Please amend claims 1, 2, 8, 10-19, 21-24, 27, 30, 32-34 as follows:

1. (Amended) A method of conducting data compression, comprising:  
2 receiving multiple input data blocks for storage in a data storage subsystem;  
3 applying a predetermined compression process to the data blocks;  
4 evaluating application of the predetermined compression process according to a  
5 predetermined compression criteria; and  
6 if the compression fails to satisfy the predetermined compression criteria, ceasing  
7 [application of the predetermined compression process] compression for  
8 subsequent data blocks.

1 2. (Amended) The method of claim 1, the predetermined compression process being  
3 performed individually [to] on each of the received data blocks, the evaluating of application  
4 of the predetermined compression process according to a predetermined compression criteria  
comprising:  
5 selecting a group of the received data blocks in accordance with a predetermined  
6 selection criteria;  
7 for each data block in the selected group, determining a compression ratio between  
8 (1) the data block's size after application of the predetermined compression  
9 process, and (2) the data block's size prior to application of the predetermined  
10 compression process, and  
11 for the selected group of received data blocks, determining how many data blocks  
12 have a compression ratio greater than a first threshold; and

13 B  
14 Concl'd  
15

if the number of data blocks having a compression ratio greater than the first threshold exceeds a second threshold, the compression satisfying the predetermined compression criteria.

1       3. (Unchanged) The method of claim 2, the selection of a group of the received data  
2       blocks in accordance with a predetermined selection criteria comprising selection of data  
3       blocks in a fixed window.

1       4. (Unchanged) The method of claim 2, the selection of a group of the received data  
2       blocks in accordance with a predetermined selection criteria comprising selection of data  
3       blocks in a running window.

1       5. (Unchanged) The method of claim 1, the evaluating of application of the  
2       predetermined compression process according to a predetermined compression criteria  
3       comprising:

4             selecting a group of received data blocks in accordance with a predetermined  
5             selection criteria;

6             for all received data blocks in the selected group, determining an aggregate  
7             compression ratio between (1) the aggregate size of the data blocks after  
8             application of the predetermined compression process, and (2) the aggregate  
9             size of the data blocks prior to application of the predetermined compression  
10           process, and

11           determining whether the aggregate compression ratio exceeds a first threshold; and  
12           if the aggregate compression ratio exceeds the first threshold, the compression  
13           satisfying the predetermined compression criteria.

1       6. (Unchanged) The method of claim 5, the selection of a group of the received data  
2       blocks in accordance with a predetermined selection criteria comprising selection of data  
3       blocks in a fixed window.

1       7. (Unchanged) The method of claim 5, the selection of a group of the received data  
2       blocks in accordance with a predetermined selection criteria comprising selection of data  
3       blocks in a running window.

1       8. (Amended) The method of claim 1, wherein:  
2              the predetermined compression process is performed individually [to] on each of the  
3              received data blocks; and  
4              the cessation of [application of the predetermined compression process] compression  
5              comprises ceasing [application of the predetermined compression process]  
6              compression until satisfaction of a predetermined skip criteria, and then  
7              resuming application of the predetermined compression process.  
*B2*

1       9. (Unchanged) The method of claim 8, predetermined skip criteria comprising  
2              expiration of predetermined time.

1       10. (Amended) The method of claim 9, the cessation of application of the predetermined  
2              compression process further comprising:  
3              storing uncompressed data items received during cessation of [the predetermined  
4              compression process without compression according to the predetermined  
5              compression process] compression.  
*sub 1  
B3 2  
4  
5*

1           11. (Amended) The method of claim 9, predetermined skip criteria comprising storage  
2           of a predetermined number of uncompressed data items [without compression according to  
3           the predetermined compression process].  
*CD-1*  
*C-AH4*

4           12. (Amended) A programmed product comprising signal-bearing media tangibly  
5           embodying a program of machine-readable instructions executable by a digital processing  
6           apparatus to perform a method for conducting data compression, said method comprising:  
7           receiving multiple [input data blocks] records for storage in a data storage  
8           subsystem;  
9           [applying a predetermined compression process to the data blocks;]  
10           compressing at least one of the data records;  
11           evaluating [application of the predetermined compression process] the compression  
12           performance according to a predetermined compression criteria; and  
if the compression fails to satisfy the predetermined compression criteria, [ceasing  
application of the predetermined compression process] terminating  
compression of subsequent data records.

1        13. (Amended) The product of claim 12, the [predetermined compression process]  
2                  compressing being performed individually [to] on each of the received data [blocks] records,  
3                  the evaluating of [application of the predetermined compression process] the compression  
4                  performance according to a predetermined compression criteria comprising:

5                  selecting a group of the received data [blocks] records in accordance with a  
6                  predetermined selection criteria;

7                  for each data [blocks] record in the selected group, determining a compression ratio  
8                  between (1) the data [block's] record's size after [application of the  
9                  predetermined compression process] compressing, and (2) the data [block's]  
10                 record's size prior to [application of the predetermined compression process]  
11                 compressing, and

12                 for the selected group of received data [blocks] records, determining how many data  
13                 [blocks] records have a compression ratio greater than a first threshold; and  
14                 if the number of data [blocks] records having a compression ratio greater than the  
15                 first threshold exceeds a second threshold, the compression performance  
16                 satisfying the predetermined compression criteria.

1                 12  
2                 14. (Amended) The product of claim 13, the selection of a group of the received data  
3                 [blocks] records in accordance with a predetermined selection criteria comprising selection  
4                 of data [blocks] records in a fixed window.

1                 13  
2                 15. (Amended) The product of claim 13, the selection of a group of the received data  
3                 [blocks] records in accordance with a predetermined selection criteria comprises selection  
4                 of data [blocks] records in a running window.

*14* 16. (Amended) The product of claim *12*, the evaluating of [application of the predetermined compression process] compression performance according to a predetermined compression criteria comprising:

4           selecting a group of received data [blocks] records in accordance with a  
5           predetermined selection criteria;

6           for all received data [blocks] records in the selected group, determining an aggregate  
7           compression ratio between (1) the aggregate size of the data [blocks] records  
8           after [application of the predetermined compression process] compressing,  
9           and (2) the aggregate size of the data [blocks] records prior to [application of  
the predetermined compression process] compressing, and

10          determining whether the aggregate compression ratio exceeds a first threshold; and  
11          if the aggregate compression ratio exceeds the first threshold, the compression  
12          performance satisfying the predetermined compression criteria.

*15* 17. (Amended) The product of claim *16*, the selection of a group of the received data [blocks] records in accordance with a predetermined selection criteria comprising selection of data [blocks] records in a fixed window.

*16* 18. (Amended) The product of claim *16*, the selection of a group of the received data [blocks] records in accordance with a predetermined selection criteria comprising selection of data [blocks] records in a running window.

1           19. (Amended) The product of claim 12, wherein:  
2                 the [predetermined compression process] compression is performed individually [to]  
3                     on each of the received data [blocks] records; and  
4                 the [cessation of application of the predetermined compression process] termination  
5                     of compression for subsequent data records comprises [ceasing application  
6                     of the predetermined compression process] terminating compression until  
7                     satisfaction of a predetermined skip criteria, and then resuming [application  
8                     of the predetermined compression process] compression for subsequent data  
9                     records. /C

1           20. (Unchanged) The product of claim 19, predetermined skip criteria comprising  
2                 expiration of a predetermined time.

1           21. (Amended) The product of claim 20, the termination of [application of the  
2                 predetermined compression process] compression for subsequent data records further  
3                 comprising:  
4                 storing uncompressed data [items] records received during [cessation of the  
5                     predetermined compression process without compression according to the  
6                     predetermined compression process] termination of compression. C

1           22. (Amended) The product of claim 20, the resumption of [application of the  
2           predetermined compression process] compression after satisfaction of a predetermined skip  
3           criteria comprising:

4                          3  
5                          4  
6                          5  
7                          6  
8                          7  
9                          8  
10                         9  
11                         10  
12                         11  
                        12  
                        C  
                        13  
                        14  
                        15  
                        16  
                        17  
                        18  
                        19  
                        20  
                        21  
                        22  
                        23  
                        24  
                        25  
                        26  
                        27  
                        28  
                        29  
                        30  
                        31  
                        32  
                        33  
                        34  
                        35  
                        36  
                        37  
                        38  
                        39  
                        40  
                        41  
                        42  
                        43  
                        44  
                        45  
                        46  
                        47  
                        48  
                        49  
                        50  
                        51  
                        52  
                        53  
                        54  
                        55  
                        56  
                        57  
                        58  
                        59  
                        60  
                        61  
                        62  
                        63  
                        64  
                        65  
                        66  
                        67  
                        68  
                        69  
                        70  
                        71  
                        72  
                        73  
                        74  
                        75  
                        76  
                        77  
                        78  
                        79  
                        80  
                        81  
                        82  
                        83  
                        84  
                        85  
                        86  
                        87  
                        88  
                        89  
                        90  
                        91  
                        92  
                        93  
                        94  
                        95  
                        96  
                        97  
                        98  
                        99  
                        100  
                        101  
                        102  
                        103  
                        104  
                        105  
                        106  
                        107  
                        108  
                        109  
                        110  
                        111  
                        112  
                        113  
                        114  
                        115  
                        116  
                        117  
                        118  
                        119  
                        120  
                        121  
                        122  
                        123  
                        124  
                        125  
                        126  
                        127  
                        128  
                        129  
                        130  
                        131  
                        132  
                        133  
                        134  
                        135  
                        136  
                        137  
                        138  
                        139  
                        140  
                        141  
                        142  
                        143  
                        144  
                        145  
                        146  
                        147  
                        148  
                        149  
                        150  
                        151  
                        152  
                        153  
                        154  
                        155  
                        156  
                        157  
                        158  
                        159  
                        160  
                        161  
                        162  
                        163  
                        164  
                        165  
                        166  
                        167  
                        168  
                        169  
                        170  
                        171  
                        172  
                        173  
                        174  
                        175  
                        176  
                        177  
                        178  
                        179  
                        180  
                        181  
                        182  
                        183  
                        184  
                        185  
                        186  
                        187  
                        188  
                        189  
                        190  
                        191  
                        192  
                        193  
                        194  
                        195  
                        196  
                        197  
                        198  
                        199  
                        200  
                        201  
                        202  
                        203  
                        204  
                        205  
                        206  
                        207  
                        208  
                        209  
                        210  
                        211  
                        212  
                        213  
                        214  
                        215  
                        216  
                        217  
                        218  
                        219  
                        220  
                        221  
                        222  
                        223  
                        224  
                        225  
                        226  
                        227  
                        228  
                        229  
                        230  
                        231  
                        232  
                        233  
                        234  
                        235  
                        236  
                        237  
                        238  
                        239  
                        240  
                        241  
                        242  
                        243  
                        244  
                        245  
                        246  
                        247  
                        248  
                        249  
                        250  
                        251  
                        252  
                        253  
                        254  
                        255  
                        256  
                        257  
                        258  
                        259  
                        260  
                        261  
                        262  
                        263  
                        264  
                        265  
                        266  
                        267  
                        268  
                        269  
                        270  
                        271  
                        272  
                        273  
                        274  
                        275  
                        276  
                        277  
                        278  
                        279  
                        280  
                        281  
                        282  
                        283  
                        284  
                        285  
                        286  
                        287  
                        288  
                        289  
                        290  
                        291  
                        292  
                        293  
                        294  
                        295  
                        296  
                        297  
                        298  
                        299  
                        300  
                        301  
                        302  
                        303  
                        304  
                        305  
                        306  
                        307  
                        308  
                        309  
                        310  
                        311  
                        312  
                        313  
                        314  
                        315  
                        316  
                        317  
                        318  
                        319  
                        320  
                        321  
                        322  
                        323  
                        324  
                        325  
                        326  
                        327  
                        328  
                        329  
                        330  
                        331  
                        332  
                        333  
                        334  
                        335  
                        336  
                        337  
                        338  
                        339  
                        340  
                        341  
                        342  
                        343  
                        344  
                        345  
                        346  
                        347  
                        348  
                        349  
                        350  
                        351  
                        352  
                        353  
                        354  
                        355  
                        356  
                        357  
                        358  
                        359  
                        360  
                        361  
                        362  
                        363  
                        364  
                        365  
                        366  
                        367  
                        368  
                        369  
                        370  
                        371  
                        372  
                        373  
                        374  
                        375  
                        376  
                        377  
                        378  
                        379  
                        380  
                        381  
                        382  
                        383  
                        384  
                        385  
                        386  
                        387  
                        388  
                        389  
                        390  
                        391  
                        392  
                        393  
                        394  
                        395  
                        396  
                        397  
                        398  
                        399  
                        400  
                        401  
                        402  
                        403  
                        404  
                        405  
                        406  
                        407  
                        408  
                        409  
                        410  
                        411  
                        412  
                        413  
                        414  
                        415  
                        416  
                        417  
                        418  
                        419  
                        420  
                        421  
                        422  
                        423  
                        424  
                        425  
                        426  
                        427  
                        428  
                        429  
                        430  
                        431  
                        432  
                        433  
                        434  
                        435  
                        436  
                        437  
                        438  
                        439  
                        440  
                        441  
                        442  
                        443  
                        444  
                        445  
                        446  
                        447  
                        448  
                        449  
                        450  
                        451  
                        452  
                        453  
                        454  
                        455  
                        456  
                        457  
                        458  
                        459  
                        460  
                        461  
                        462  
                        463  
                        464  
                        465  
                        466  
                        467  
                        468  
                        469  
                        470  
                        471  
                        472  
                        473  
                        474  
                        475  
                        476  
                        477  
                        478  
                        479  
                        480  
                        481  
                        482  
                        483  
                        484  
                        485  
                        486  
                        487  
                        488  
                        489  
                        490  
                        491  
                        492  
                        493  
                        494  
                        495  
                        496  
                        497  
                        498  
                        499  
                        500  
                        501  
                        502  
                        503  
                        504  
                        505  
                        506  
                        507  
                        508  
                        509  
                        510  
                        511  
                        512  
                        513  
                        514  
                        515  
                        516  
                        517  
                        518  
                        519  
                        520  
                        521  
                        522  
                        523  
                        524  
                        525  
                        526  
                        527  
                        528  
                        529  
                        530  
                        531  
                        532  
                        533  
                        534  
                        535  
                        536  
                        537  
                        538  
                        539  
                        540  
                        541  
                        542  
                        543  
                        544  
                        545  
                        546  
                        547  
                        548  
                        549  
                        550  
                        551  
                        552  
                        553  
                        554  
                        555  
                        556  
                        557  
                        558  
                        559  
                        560  
                        561  
                        562  
                        563  
                        564  
                        565  
                        566  
                        567  
                        568  
                        569  
                        570  
                        571  
                        572  
                        573  
                        574  
                        575  
                        576  
                        577  
                        578  
                        579  
                        580  
                        581  
                        582  
                        583  
                        584  
                        585  
                        586  
                        587  
                        588  
                        589  
                        590  
                        591  
                        592  
                        593  
                        594  
                        595  
                        596  
                        597  
                        598  
                        599  
                        600  
                        601  
                        602  
                        603  
                        604  
                        605  
                        606  
                        607  
                        608  
                        609  
                        610  
                        611  
                        612  
                        613  
                        614  
                        615  
                        616  
                        617  
                        618  
                        619  
                        620  
                        621  
                        622  
                        623  
                        624  
                        625  
                        626  
                        627  
                        628  
                        629  
                        630  
                        631  
                        632  
                        633  
                        634  
                        635  
                        636  
                        637  
                        638  
                        639  
                        640  
                        641  
                        642  
                        643  
                        644  
                        645  
                        646  
                        647  
                        648  
                        649  
                        650  
                        651  
                        652  
                        653  
                        654  
                        655  
                        656  
                        657  
                        658  
                        659  
                        660  
                        661  
                        662  
                        663  
                        664  
                        665  
                        666  
                        667  
                        668  
                        669  
                        670  
                        671  
                        672  
                        673  
                        674  
                        675  
                        676  
                        677  
                        678  
                        679  
                        680  
                        681  
                        682  
                        683  
                        684  
                        685  
                        686  
                        687  
                        688  
                        689  
                        690  
                        691  
                        692  
                        693  
                        694  
                        695  
                        696  
                        697  
                        698  
                        699  
                        700  
                        701  
                        702  
                        703  
                        704  
                        705  
                        706  
                        707  
                        708  
                        709  
                        710  
                        711  
                        712  
                        713  
                        714  
                        715  
                        716  
                        717  
                        718  
                        719  
                        720  
                        721  
                        722  
                        723  
                        724  
                        725  
                        726  
                        727  
                        728  
                        729  
                        730  
                        731  
                        732  
                        733  
                        734  
                        735  
                        736  
                        737  
                        738  
                        739  
                        740  
                        741  
                        742  
                        743  
                        744  
                        745  
                        746  
                        747  
                        748  
                        749  
                        750  
                        751  
                        752  
                        753  
                        754  
                        755  
                        756  
                        757  
                        758  
                        759  
                        760  
                        761  
                        762  
                        763  
                        764  
                        765  
                        766  
                        767  
                        768  
                        769  
                        770  
                        771  
                        772  
                        773  
                        774  
                        775  
                        776  
                        777  
                        778  
                        779  
                        780  
                        781  
                        782  
                        783  
                        784  
                        785  
                        786  
                        787  
                        788  
                        789  
                        790  
                        791  
                        792  
                        793  
                        794  
                        795  
                        796  
                        797  
                        798  
                        799  
                        800  
                        801  
                        802  
                        803  
                        804  
                        805  
                        806  
                        807  
                        808  
                        809  
                        810  
                        811  
                        812  
                        813  
                        814  
                        815  
                        816  
                        817  
                        818  
                        819  
                        820  
                        821  
                        822  
                        823  
                        824  
                        825  
                        826  
                        827  
                        828  
                        829  
                        830  
                        831  
                        832  
                        833  
                        834  
                        835  
                        836  
                        837  
                        838  
                        839  
                        840  
                        841  
                        842  
                        843  
                        844  
                        845  
                        846  
                        847  
                        848  
                        849  
                        850  
                        851  
                        852  
                        853  
                        854  
                        855  
                        856  
                        857  
                        858  
                        859  
                        860  
                        861  
                        862  
                        863  
                        864  
                        865  
                        866  
                        867  
                        868  
                        869  
                        870  
                        871  
                        872  
                        873  
                        874  
                        875  
                        876  
                        877  
                        878  
                        879  
                        880  
                        881  
                        882  
                        883  
                        884  
                        885  
                        886  
                        887  
                        888  
                        889  
                        890  
                        891  
                        892  
                        893  
                        894  
                        895  
                        896  
                        897  
                        898  
                        899  
                        900  
                        901  
                        902  
                        903  
                        904  
                        905  
                        906  
                        907  
                        908  
                        909  
                        910  
                        911  
                        912  
                        913  
                        914  
                        915  
                        916  
                        917  
                        918  
                        919  
                        920  
                        921  
                        922  
                        923  
                        924  
                        925  
                        926  
                        927  
                        928  
                        929  
                        930  
                        931  
                        932  
                        933  
                        934  
                        935  
                        936  
                        937  
                        938  
                        939  
                        940  
                        941  
                        942  
                        943  
                        944  
                        945  
                        946  
                        947  
                        948  
                        949  
                        950  
                        951  
                        952  
                        953  
                        954  
                        955  
                        956  
                        957  
                        958  
                        959  
                        960  
                        961  
                        962  
                        963  
                        964  
                        965  
                        966  
                        967  
                        968  
                        969  
                        970  
                        971  
                        972  
                        973  
                        974  
                        975  
                        976  
                        977  
                        978  
                        979  
                        980  
                        981  
                        982  
                        983  
                        984  
                        985  
                        986  
                        987  
                        988  
                        989  
                        990  
                        991  
                        992  
                        993  
                        994  
                        995  
                        996  
                        997  
                        998  
                        999  
                        1000

1           24. (Amended) The subsystem of claim 23, the predetermined compression process being  
2           performed individually [to] on each of the received data blocks, the evaluating of application  
3           of the predetermined compression process according to a predetermined compression criteria  
4           comprising:

5                         selecting a group of the received data blocks in accordance with a predetermined  
6                         selection criteria;

7                         for each data blocks in the select group, determining a compression ratio between (1)  
8                         the data block's size after application of the predetermined compression  
9                         process, and (2) the data block's size prior to application of the predetermined  
10                  compression process, and

11                  for the selected group of received data blocks, determining how many data blocks  
12                  have a compression ratio greater than a first threshold; and  
13                  if the number of data blocks having a compression ratio greater than the first  
14                  threshold exceeds a second threshold, the compression satisfying the  
15                  [predetermined] user adjustable and programmable compression criteria.

1           25. (Unchanged) The subsystem of claim 24, the selection of a group of the received data  
2           blocks in accordance with a predetermined selection criteria comprising selection of data  
3           blocks in a fixed window.

1           26. (Unchanged) The subsystem of claim 24, the selection of a group of the received data  
2           blocks in accordance with a predetermined selection criteria comprising selection of data  
3           blocks in a running window.

1           27. (Amended) The subsystem of claim 23, the evaluating of application of the  
2           predetermined compression process according to a predetermined compression criteria  
3           comprising:

4                 selecting a group of received data blocks in accordance with a predetermined  
5                 selection criteria;

6                 for all received data blocks in the selected group, determining an aggregate  
7                 compression ratio between (1) the aggregate size of the data blocks after  
8                 application of the predetermined compression process, and (2) the aggregate  
9                 size of the data blocks prior to application of the predetermined compression  
10                 process, and

11                 determining whether the aggregate compression ratio exceeds a first threshold; and  
12                 if the aggregate compression ratio exceeds the first threshold, the compression  
13                 satisfying the [predetermined] user adjustable and programmable  
14                 compression criteria.

1           28. (Unchanged) The subsystem of claim 27, the selection of a group of the received data  
2           blocks in accordance with a predetermined selection criteria comprising selection of data  
3           blocks in a fixed window.

1           29. (Unchanged) The subsystem of claim 27, the selection of a group of the received data  
2           blocks in accordance with a predetermined selection criteria comprising selection of data  
3           blocks in a running window.

1           30. (Amended) The subsystem of claim 23, wherein:

2                 the predetermined compression process is performed individually [to] on each of the

3                 received data blocks; and

4                 the cessation of [application of the predetermined compression process] compression

5                 comprises ceasing [application of the predetermined compression process]

6                 compression until satisfaction of a predetermined skip criteria, and then

7                 resuming application of the predetermined compression process.

1           31. (Unchanged) The subsystem of claim 30, predetermined skip criteria comprising  
2                 expiration of a predetermined time.

1           32. (Amended) The subsystem of claim 31, the termination of application of the  
2                 predetermined compression process further comprising:  
3                 storing uncompressed data items received during cessation of [the predetermined  
4                 compression process without compression according to the predetermined  
                    compression process] compression.

1           33. (Amended) The subsystem of claim 31, the resumption of application of the  
2                 predetermined compression process after satisfaction of a predetermined skip criteria  
3                 comprising:  
4                 resuming application of the predetermined compression process after storage of a  
5                 predetermined number of uncompressed data items [without compression  
6                 according to the predetermined compression process].

1           34. (Amended) A data storage subsystem, comprising:  
2           storage means to store digital data blocks;  
3           storage controller means, coupled to the storage unit, for conducting data  
4           compression process by:  
5           receiving multiple input data blocks for storage in a data storage subsystem;  
6           applying a predetermined compression process to the data blocks;  
7           evaluating application of the predetermined compression process according  
8           to a predetermined compression criteria; [and]  
9           if the compression fails to satisfy the predetermined compression criteria,  
10           ceasing [application of the predetermined compression process]  
11           compression of subsequent data blocks;  
12           wherein the predetermined compression process is performed individually to  
13           each of the received data blocks, and the evaluating of application of  
14           the predetermined compression process according to a predetermined  
15           compression criteria comprises:  
16           selecting a group of the received data blocks in accordance with a  
17           predetermined selection criteria;  
18           for each data block in the selected group, determining a compression ratio  
19           between (1) the data block's size after application of the  
20           predetermined compression process, and (2) the data block's size  
21           prior to application of the predetermined compression process;  
22           for the selected group of received data blocks, determining how many data  
23           blocks have a compression ratio greater than a first threshold; and  
24           if the number of data blocks having a compression ratio greater than the first  
25           threshold exceeds a second threshold, the compression satisfying the  
             predetermined compression criteria.

B7  
Concl'd